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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Roderick J. CHAPPEL.

Examiner: Ja-Na HINES

Serial No: 09/380,826

Art Unit: 1641

Filed: November 22, 1999

Docket: DAVIE79.001A

For: LEPTOSPIRA PATHOGENS

EXHIBIT A

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference mro/jms	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/AU 98/00145	International filing date (day/month/year) 6 March 1998	(Earliest) Priority Date (day/month/year) 7 March 1997

Applicant
(1) **AGRICULTURE VICTORIA SERVICES PTY. LTD. AND PIG RESEARCH AND DEVELOPMENT CORPORATION.**
(2) **CHAPPEL, Roderick J.**

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of **2** sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (See Box I)

2. ☐ Unity of invention is lacking (See Box II)

3. ☒ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing

☒ filed with the international application

☐ furnished by the applicant separately from the international application,

☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed

☐ transcribed by this Authority

4. With regard to the title, ☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

LEPTOSPIRA PATHOGENS

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is:

Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure

☐ because this figure better characterises the invention

☒ None of the figures

INTERNATIONAL SEARCH REPORT

International Application No
PCT/AU 98/00145**A. CLASSIFICATION OF SUBJECT MATTER**Int Cl⁶: A61K 39/02, C12N 1/20, C12N 15/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁶ A61K 39/02, C12N 1/20, C12N 15/30

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
DERWENT WPAT, JPAT; CHEMICAL ABSTRACTS; MEDLINE; ANGIS EMBL, GENBANK.**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EMBL Database: Accession No. U60594 ; Sequence ID LFU60594 ; Leptospira fainei 16S ribosomal RNA gene; date published 12 June 1996 ; Submitted 12 June 1996.	1-87
X	EMBL Database: Accession No. Z21634 ; Sequence ID LI16SRDNY ; L. inadaï gene for 16S ribosomal RNA ; date published 2 December 1993 ; submitted 9 February 1993.	1-87

☐ Further documents are listed in the continuation of Box C

☐ See patent family annex

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
9 APRIL 1998Date of mailing of the international search report
20 APR 1998Name and mailing address of the ISA/AU
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